AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. §1251 et seq.; the "Act"); Hawaii Revised Statutes (HRS), Chapter 342D; and Hawaii Administrative Rules (HAR), Chapters 11-54 and 11-55, Department of Health (DOH), State of Hawaii,

CITY AND COUNTY OF HONOLULU DEPARTMENT OF ENVIRONMENTAL SERVICES

(hereinafter PERMITTEE),

is authorized to discharge treated wastewater to the receiving waters named Mamala Bay, Pacific Ocean through Outfall Serial No. 001 at Latitude 21°17'01"N and Longitude 157°54'24"W,

from its Sand Island Wastewater Treatment Plant located at 1150 Sand Island Parkway, Honolulu, Hawaii,

in accordance with the effluent limitations, monitoring requirements and other conditions set forth herein, and in the DOH "Standard NPDES Permit Conditions" (version 14).

All references to Title 40 of the Code of Federal Regulations (CFR) are to regulations that are in effect on July 1, 2013, except as otherwise specified. Unless otherwise specified herein, all terms are defined as provided in the applicable regulations in Title 40 of the CFR.

Failure to comply with any condition, requirement, and/or limitation in this permit is an enforceable violation and your NPDES permit may be terminated. If you violate Hawaii Revised Statutes (HRS), Chapter 342D, you may be subject to penalties of up to \$25,000 per violation per day and up to two (2) years in jail. Falsification of information, including providing information in the NPDES application that does not match what is actually occurring at the project site/facility, may result in criminal penalties for the Permittee and their authorized representative as provided in Clean Water Act, Section 309 and HRS, Section 342D-35.

This permit, including the Zone of Mixing, will become effective on January 1, 2015.

A minor permit modification (Page 3) became effective on January 1, 2015. A major modification (Page 7, formerly Page 9) became effective on October 1, 2015.

This permit modification shall be effective September 1, 2018.

This permit, including the Zone of Mixing, and the authorization to discharge will expire at midnight, **November 11, 2019.**

Signed this 27th day of July, 2018.

(For) Director of Health

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

 During the period beginning with the effective date of this permit and lasting until the expiration date of this permit, the Permittee is authorized to discharge treated wastewater from Outfall Serial No. 001. The discharge shall be limited and monitored as specified below.

Effluent		Discharge L	imitations ¹		Monitoring Requirements	
Characteristics	Averege Averege Meximum		Measurement Frequency	Sample Type		
Flow	2	2	2	MGD	Continuous/ Estimate ⁴	
D: 1 : 10	30	45	3	mg/L		
Biochemical Oxygen	22,518	33,777	3	lbs/day	1/Day4	24-Hour
Demand (BOD) (5-day @ 20 Deg. C) ⁵	The average monthly percent removal shall not be less than 85 percent				1/Day⁴	Composite
	30	45	3	mg/L		
Total Suspended Solids	22,518	33,777	3	lbs/day	4 /Day 4	24-Hour
(TSS) ⁵	The average monthly percent removal shall not be less than 85 percent				1/Day⁴	Composite

MGD - Million Gallons per Day

- ² The Permittee shall monitor and report the average monthly, average weekly, and maximum daily flow.
- 3 The Permittee shall monitor and report the parameter analytical test results.
- ⁴ Both influent and effluent samples shall be taken, as specified in Part A.2 of this Permit
- ⁵ See discussion of the 2010 Consent Decree on page 8 of the Fact Sheet.

Effluent		Discharge	Limitations ¹		Monitoring Ro	equirements
Characteristics	Average Average Maximum Units Annual Monthly Daily		Units	Measurement Frequency	Sample Type	
рН	Not less t	han 6.0 and than 9.0	not greater	S.U.	5/Week	Grab
Chronic Toxicity Tripneustes gratilla ²		1	Pass ³	Pass/Fail	1/Quarter	24-Hour Composite
Chronic Toxicity Ceriodaphnia dubia ²		1	Pass ³	Pass/Fail	1/Quarter	24-Hour Composite
Chronic Toxicity Atherinops affinis ²		1	Pass ³	Pass/Fail	1/Quarter	24-Hour Composite
Dieldrin	0.0138 ⁴ 0.0103 ⁵		0.420 0.315	μg/L lbs/day	1/Month ⁶	24-Hour Composite
Enterococcus		19,250 ⁷	28,7308	CFU/100 mL	1/Day ⁹	Grab ¹⁰
Total Oil and Grease			11 11	mg/L lbs/day	3/Week ⁶	Grab
Total Petroleum Hydrocarbons		11 11	11 11	mg/L lbs/day	3/Week ⁶	Grab ¹²
Fats, Oils, and Grease		11	11	mg/L	3/Week ⁶	Calculate ¹³

Compliance with mass-based effluent limitations shall be determined using the following formula: lbs/day = 8.34 * concentration (mg/L) * flow (MGD)

Effluent		Discharge Limitations ¹				Monitoring Requirements	
Characteristics	Average Annual	Average Monthly	Maximum Daily	Units	Measurement Frequency	Sample Type	
		11	11	lbs/day			
Temperature		11	11	°C	1/Week	Grab	
Ammonia Nitrogen	11	11		μg/L	1/Month	24-Hour	
Ammonia Nitrogen	11	11		lbs/day	1/WOHTH	Composite	
Total Nitrogen	11	11		μg/L	1/Month	24-Hour	
Total Nitrogen	11	11		lbs/day	1/10/01/11/1	Composite	
Total Phosphorus	11	11		μg/L	1/Month	24-Hour	
Total Phosphorus	11	11		lbs/day	1/WOHTH	Composite	
Nitrate + Nitrite Nitrogen	11	11		μg/L	1/Month	24-Hour	
(NO ₃ +NO ₂)	11	11		lbs/day	1/WONTH	Composite	
Turbidity	11	11		NTU	1/Month	Grab	
Remaining Pollutants ¹⁴	11	11		μg/l	2/Year	15	

N/A – Not Applicable

- 1 Compliance with mass-based effluent limitations shall be determined using the following formula: lbs/day = 8.34 * concentration (mg/L) * flow (MGD)
- The Permittee shall test one species of the three chronic toxicity test species (T.gratilla, C.dubia and A.affinis) each calendar month such that each species is tested at least once per quarter.
- ³ "Pass", as described in Section B.3 of this Permit.
- 4 If the Minimum Level (ML) is greater than 0.0138 μg/l, the discharge limitation shall be the value of the ML for the specific laboratory analysis result.
- ⁵ If the Minimum Level (ML) is greater than 0.0138 μg/l, the discharge limitation shall be equal to 8.34 * ML (mg/l) * flow (MGD).
- ⁶ Both influent and effluent samples shall be taken, as specified in Part A.2 of this Permit.
- ⁷ Compliance based on the monthly geometric mean.
- 8 Compliance based on a daily maximum. The Permittee may sample more frequently using approximately equally spaced intervals throughout a 24 hour period and compliance will be evaluated using a daily geometric mean.
- 9 Report enterococci as a geometric mean and as a single sample.
- ¹⁰ Enterococci samples shall be analyzed using Method 1600, *Enterococci in Water by Membrane Filtration Using membrane-Enterococcus Indoxyl-β-D-Glucoside Agar (mEl)* (EPA 821-R-09-016, December 2009, EPA) or ASTM D6503-99.
- ¹¹ The Permittee shall monitor and report the parameter results.
- Influent and effluent monitoring shall consist of a minimum of three grab samples collected over a 24 hour period at approximately equal intervals. One grab sample shall be collected during peak flow. Grab samples shall be analyzed individually, as specified in EPA Method 1664. Individual analytical results shall be mathematically flow proportioned to derive a single value for reporting.
- ¹³ Fats, oils, and grease are equal to the total oil and grease minus total petroleum hydrocarbons.
- The Permittee shall perform semi-annual monitoring, based on a calendar year, on all remaining pollutants listed in Appendix 1 of this permit, except those already specified in the table above. Results shall be submitted by the 28th day of the month following the completed monitoring period July 28th for the first half of the calendar year and January 28th for the second half of the calendar year.
- The sample type for each pollutant shall be in accordance with Appendix 1. The use of grab samples may be used, although 24-hour composite samples may be used if indicated in Appendix 1.
 - 2. For individual discharge parameters monitored in the influent and effluent, monitoring shall be conducted on the same day.

- 3. All influent and effluent monitoring shall be arranged so that each day of the calendar week is represented once per month (i.e., for discharge parameters monitoring 5 days per week or 3 days per week), or once per two (2) months (i.e., for discharge parameters monitored once per week).
- 4. Effluent monitoring for total nitrogen, total phosphorus, ammonia nitrogen, nitrate plus nitrite nitrogen, and turbidity shall be conducted on the same day that receiving water monitoring for these pollutants is conducted.
- 5. Samples taken in compliance with the monitoring requirements in Part A of this permit shall be taken at the following locations:
 - a. Influent Monitoring, Monitoring Location INF: All influent samples shall be taken:
 - i. downstream of any additions to the trunk sewer;
 - ii. upstream of any in-plant return flows; and
 - iii. prior to treatment where representative samples of the influent can be obtained.
 - b. Effluent Monitoring Location, Outfall Serial No. 001: All effluent samples shall be taken:
 - i. downstream from any additions to the facility after all treatment processes; and
 - ii. prior to mixing with the receiving waters where representative samples of the final effluent can be obtained.

B. WHOLE-EFFLUENT TOXICITY REQUIREMENTS

1. Monitoring Frequency

The Permittee shall conduct chronic toxicity tests on flow weighted 24-hour composite effluent samples in accordance with the procedures outlined below using one of the three test species each calendar month such that each species is tested once per quarter. The Permittee shall report each month's result on the Discharge Monitoring Report (DMR) for that month.

For whole effluent toxicity tests using *Tripneustes gratilla*, if the Permittee has unacceptable control performance while conducting the sea urchin sperm/fertilization bioassay during a monitoring period, the Permittee shall document its efforts, communicate all attempts to the Director, and report all attempts on the DMR for that monitoring period.

2. Test Species and Methods

The Permittee shall conduct chronic toxicity testing on *Tripneustes gratilla*, *Ceriodaphnia dubia*, and *Atherinops affinis* using the test methods described below and follow Quality Assurance procedures as described in the test methods manual Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (EPA/600/R-95/136,1995).

Test Species	Test Method
Tripneustes gratilla	Hawaiian Collector Urchin, Tripneustes gratilla
	(Hawa'e) Fertilization Test Method (Adapted by
	Amy Wagner, EPA Region 9 Laboratory, Richmond,
	CA from a method developed by George Morrison,
	EPA, ORD Narragansett, RI and Diane Nacci,
	Science Applications International Corporation,
	ORD Narragansett, RI) (EPA/600/R-12/022).
Ceriodaphnia dubia	Short-term Methods for Estimating the Chronic
	Toxicity of Effluents and Receiving Waters to
	Freshwater Organisms (EPA/821/R-02/013)
Atherinops affinis	Short-Term Methods for Estimating the Chronic
	Toxicity of Effluents and Receiving Waters to West
	Coast Marine and Estuarine Organisms
	(EPA/600/R-95/136)

3. Chronic WET Permit Limit

All State waters shall be free from chronic toxicity as measured using the toxicity tests listed in HAR, Section 11-54-10, or other methods specified by the Director. For this discharge, the determination of "Pass" or "Fail" from any one WET chronic toxicity test at the applicable in-stream waste concentration (IWC) using the Test of Significant Toxicity (TST) approach is described in National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, 2010). For any one chronic toxicity test, the chronic WET permit limit that must be met is rejection of the null hypothesis (Ho):

IWC (0.45 percent effluent) mean response ≤ 0.75 × Control mean response.

For Outfall Serial No. 001, an IWC of 0.45% shall be used.

A test result that rejects this null hypothesis is reported as "Pass" on the DMR form. A test result that does not reject this null hypothesis is reported as "Fail" on the DMR form. To calculate either "Pass" or "Fail", the Permittee shall follow the instructions in National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document, Appendix A. If a WET test result is reported as "Fail," then the Permittee shall follow Part B.6 (Accelerated Toxicity Testing and TRE/TIE Process) of this permit.

4. Quality Assurance

- a. Quality assurance measures, instructions, and other recommendations and requirements are found in the EPA chronic test methods manual previously referenced. Additional requirements are specified below.
- b. This discharge is subject to a determination of "Pass" or "Fail" from a single-effluent concentration chronic toxicity test at the IWC (for statistical flowchart and procedures, see National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document, Appendix A. During Step 6 of Appendix A, the Permittee shall use an alpha value of 0.05 for *T. gratilla*. The chronic IWC for Outfall Serial No. 001 is 0.45 percent effluent.
- c. Effluent dilution water and control water shall be receiving water or laboratory water, as described in the test methods manual Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (EPA/600/R-95/136, 1995). If the dilution water is different from test

organism culture water, then a second control using culture water shall also be used.

- d. If organisms are not cultured in-house, then concurrent testing with a reference toxicant shall be conducted. If organisms are cultured in-house, then monthly reference toxicant testing is sufficient. Reference toxicant tests and effluent toxicity tests shall be conducted using the same test conditions (e.g., same test duration, etc.).
- e. All multi-concentration reference toxicant test results must be reviewed and reported according to EPA guidance on the evaluation of concentration-response relationships found in Method Guidance and Recommendations for Whole Effluent Toxicity (WET) Testing (40 CFR 136) (EPA/821/B-00/004, 2000).
- f. If either the reference toxicant or effluent toxicity tests do not meet all test acceptability criteria in the test methods manual, then the Permittee shall re-sample and re-test within 14 calendar days.
- g. If the discharged effluent is chlorinated, then chlorine shall not be removed from the effluent sample prior to toxicity testing without written approval by the Director.

5. Initial Investigation TRE Work Plan

Within 90 calendar days of the permit effective date, the Permittee shall prepare and submit to the Director a copy of its Initial Investigation Toxicity Reduction Evaluation (TRE) Work Plan (1-2 pages) for review. This plan shall include steps the Permittee intends to follow if toxicity is measured above the chronic WET permit limit and shall include the following, at minimum:

- a. A description of the investigation and evaluation techniques that would be used to identify potential causes and sources of toxicity, effluent variability, and treatment system efficiency.
- b. A description of methods for maximizing in-house treatment system efficiency, good housekeeping practices, and a list of all chemicals used in operations at the facility.
- c. An indication of who would conduct the TIEs if a Toxicity Identification Evaluation (TIE) is necessary (i.e., an in-house expert or outside contractor).

- d. A flow chart of the workplan steps.
- 6. Accelerated Toxicity Testing and TRE/TIE Process
 - a. If the chronic WET permit limitation is exceeded and the source of toxicity is known (e.g., a temporary plant upset), then the Permittee shall conduct one (1) additional toxicity test using the same species and test method. This toxicity test shall begin within 14 calendar days of receipt of a test result exceeding the chronic WET permit limit. If the additional toxicity test does not exceed the chronic WET permit limitation, then the Permittee may return to the regular testing frequency.
 - b. If the chronic WET permit limit is exceeded and the source of toxicity is not known, then the Permittee shall conduct six (6) additional toxicity tests using the same species and test method, approximately every two (2) weeks, over a 12 week period. This testing shall begin within 14 calendar days of receipt of a test result exceeding the chronic WET permit limit. If none of the additional toxicity tests exceed the chronic WET permit limit, then the Permittee may return to the regular testing frequency.
 - c. If one (1) of the additional toxicity tests (in paragraph Parts B.6.a or B.6.b) exceeds the chronic WET permit limitation, then, within 14 calendar days of receipt of this test result, the Permittee shall initiate a TRE using, according to the type of treatment facility, EPA manual Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants (EPA/833/B-99/002, 1999) or EPA manual Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations (EPA/600/2-88/070, 1989). In conjunction, the Permittee shall develop and implement a Detailed TRE Work Plan which shall include the following: further actions undertaken by the Permittee to investigate, identify, and correct the causes of toxicity; actions the Permittee will take to mitigate the effects of the discharge and prevent the recurrence of toxicity; and a schedule for these actions. The Permittee may discontinue accelerated toxicity testing upon the written approval from the Director.
 - d. The Permittee may initiate a TIE as part of a TRE to identify the causes of toxicity using the same species and test method and, as guidance, EPA manuals: Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures (EPA/600/6-91/003, 1991); Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity (EPA/600/R-92/080, 1993); Methods for Aquatic

Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity (EPA/600/R-92/081, 1993); and Marine Toxicity Identification Evaluation (TIE): Phase I Guidance Document (EPA/600/R-96-054, 1996). Further, the Permittee may be required by the Director to initiate a TIE as part of a TRE.

- e. Prior to conducting a TIE, the Permittee shall submit a TIE plan to the Director. The TIE plan, at a minimum shall:
 - (1) Discuss previous TIE efforts and other available data useful in developing TIE procedures.
 - (2) Evaluate available operations and effluent data.
 - (3) Identify and discuss site-specific considerations for the TIE effort.
 - (4) Include a comprehensive quality control program.
 - (5) Establish a monitoring program.
 - (6) Identify test methods and statistical methods to be used for the TIE effort.
 - (7) Identify the TIE procedures for the baseline toxicity tests and TIE manipulations.
 - (8) Discuss additional potential analysis that might be helpful in evaluating the causative toxicant(s) or appropriate treatability, such as pollutant scans for toxic effluent.
 - (9) Discuss the personnel and their qualifications for the team conducting the TIE results interpretation.
 - (10) Include follow-up procedures for use if the TIE is inconclusive.

The Permittee shall incorporate all comments received from the Director within 14 calendar days of the TIE plan submittal. Within 14 calendar days of the TIE plan submittal, the Permittee shall commence with the TIE.

7. Reporting of Chronic Toxicity Monitoring Results

a. The Permittee shall report on the DMR for the month in which the toxicity test was conducted: "Pass" or "Fail" (based on the Welch's t-test result), the calculated "percent mean response at IWC", where:

percent mean response at IWC = ((Control mean response – IWC mean response) ÷ Control mean response)) × 100,

and to assist in evaluation of the test result, the standard deviations for the IWC mean response and the Control mean response.

- b. The Permittee shall submit a full laboratory report for all toxicity testing as an attachment to the DMR for the month in which the toxicity test was conducted. The laboratory report shall contain: the toxicity test results; the dates of sample collection and initiation of each toxicity test; all results for effluent parameters monitored concurrently with the toxicity test(s); and progress reports on TRE/TIE investigations.
- c. The Permittee shall notify the Director in writing within five (5) business days of exceedance of the chronic WET permit limitation. This notification shall describe actions the permittee has taken or will take to investigate, identify, and correct the causes of toxicity; the status of actions required by this permit; and schedule for actions not yet completed; or reason(s) that no action has been taken.
- 8. Permit Reopener for Chronic Toxicity

In accordance with 40 CFR Parts 122 and 124, this permit may be modified to include new effluent limitations or permit conditions to address chronic toxicity in the effluent or receiving waterbody, as a result of the discharge; or to implement new, revised, or newly interpreted water quality standards applicable to chronic toxicity.

C. WATER QUALITY CRITERIA

- 1. Specific Water Quality Criteria for Recreational Waters
 - a. The discharge of treated wastewater through Outfall Serial No. 001 shall not cause the following water quality criteria to be violated in marine recreational water:
 - (1) Enterococcus content shall not exceed a geometric mean of 35 colony forming units per one hundred milliliters over any thirty day interval.
 - (2) A Statistical Threshold Value (STV) of 130 per one hundred milliliters shall be used for enterococcus. The STV shall not be exceeded by more than ten percent of samples taken within the same thirty day interval in which the geometric mean is calculated.
 - (3) State waters in which enterococcus content does not exceed the standard shall not be lowered in quality.
 - (4) Raw or inadequately treated sewage, sewage for which the degree of treatment is unknown, or other pollutants of public health significance, as determined by the Director, shall not be present in natural public swimming, bathing, or wading areas. Warning signs shall be posted where human sewage has been identified as temporarily contributing to the enterococcus count.
 - Compliance with the water quality criteria listed in Part C.1.a, above, shall be measured at shoreline monitoring stations as described in Part E.1 of this permit.
- 2. Basic Water Quality Criteria Applicable to All Waters:
 - a. The discharge shall comply with applicable water quality standards for receiving waters adopted by the DOH under HAR, Chapter 11-54, Water Quality Standards, effective October 21, 2012.
 - b. The discharge shall not interfere with the attainment or maintenance of that water quality which assures protection of public water supplies and the protection and propagation of a balanced indigenous population of shellfish, fish, and wildlife and allows recreational activities in and on the water.
 - c. The discharge of treated wastewater through Outfall Serial No. 001 shall not cause the following water quality criteria to be violated:

- (1) All State waters shall be free from pollutants in concentrations which exceed the acute standards listed in HAR 11-54-4(b)(3). All State waters shall also be free from acute toxicity as measured using the toxicity tests listed in HAR 11-54-11, or other methods specified by the Director.
- (2) All State waters shall be free from pollutants in concentrations which on average during any 24 hour period exceed the chronic standards listed in HAR 11-54-4(b)(3). All State waters shall also be free from chronic toxicity as measured using the toxicity tests listed in HAR 11-54-10, or other methods specified by the Director.
- (3) All State waters shall be free from pollutants in concentrations which, on average during any 30-day period, exceed the "fish consumption" standards for non-carcinogens in HAR 11-54-4(b)(3). All State waters shall also be free from pollutants in concentrations, which on average during any 12-month period, exceed the "fish consumption" standards for pollutants identified as carcinogens in HAR 11-54-4-(b)(3).
- (4) All waters shall be free of substances attributable to domestic, industrial, or other controllable sources of pollutants, include:
 - i. Material that will settle to form objectionable sludge or bottom deposits;
 - ii. Floating debris, oil, grease, scum, or other floating materials;
 - Substances in amounts sufficient to produce taste in the water or detectable off-flavor in the flesh of fish, or in amounts sufficient to produce objectionable color, turbidity or other conditions in the receiving waters;
 - iv. High or low temperatures; biocides; pathogenic organisms; toxic, radioactive, corrosive, or other deleterious substances at levels or in combinations sufficient to be toxic or harmful to human, animal, plant, or aquatic life, or in amounts sufficient to interfere with any beneficial use of the water;
 - v. Substances or conditions or combinations thereof in concentrations which produce undesirable aquatic life; and
 - vi. Soil particles resulting from erosion on land involved in earthwork, such as the construction of public works; highways; subdivisions; recreational, commercial, or industrial developments; or the cultivation and management of agricultural lands.

D. ZONE OF INITIAL DILUTION LIMITATIONS AND ZONE OF MIXING LIMITATIONS

1. Zone of Initial Dilution (ZID)

The discharge of treated wastewater through Outfall Serial No. 001 shall not cause the following water quality criteria to be violated in Class A wet open coastal waters beyond the ZID:

Parameter	Units	Geometric mean not to exceed the given value	Not to exceed the given value more than 10% of the time	Not to exceed the given value more than 2% of the time	
Light Extinction Coefficient	k units	0.20	0.50	0.85	
Turbidity	NTU	0.50	1.25	2.00	
Dissolved Oxygen	mg/L	Not less than 75 percent saturation, determined as a function of ambient water temperature and salinity.			

Monitoring for light extinction coefficient, turbidity, and dissolved oxygen shall be conducted as specified in Part E.2 and E.3 of this Permit.

2. Zone of Mixing (ZOM)

The discharge of treated wastewater through Outfall Serial No. 001 shall not cause the following water quality criteria to be violated in Class A wet open coastal waters beyond the ZOM:

Parameter	Units	Geometric mean not to exceed the given value	Not to exceed the given value more than 10% of the time	Not to exceed the given value more than 2% of the time	
Ammonia Nitrogen	μg/L	3.50	8.50	15.00	
Total Nitrogen	μg/L	150.00	250.00	350.00	
Nitrate Plus Nitrite Nitrogen	μg/L	5.00	14.00	25.00	
Total Phosphorus	μg/L	20.00	40.00	60.00	
Chlorophyll <u>a</u>	μg/L	0.30	0.90	1.75	
рН	s.u.	Shall not deviate more than 0.5 units from a value of 8.1, except coastal locations where and when freshwater from stream, stormdrain, or groundwater discharge may depress the pH to a minimum level of 7.0.			
Temperature	°C		re than one degree mbient conditions.	e Celsius from	

Parameter	Units	Geometric mean not to exceed the given value	Not to exceed the given value more than 10% of the time	Not to exceed the given value more than 2% of the time
Salinity	ppt	Shall not vary more than 10 percent from natural or seasonal changes considering hydrologic input and oceanographic factors.		

¹ To be evaluated on an annual basis.

Monitoring for receiving water parameters shall be conducted as specified in Part E of this Permit. The specific water quality criteria set forth in the table above may be exceeded within the boundaries of the ZOM and shall not constitute a violation of this permit. Compliance with the geometric mean shall be evaluated based on a calendar year.

3. Regional Monitoring Activities Coordination and Implementation

The intent of regional monitoring activities is to assess whether the entire receiving water body meets Water Quality Standards and to determine any sources that may be causing or contributing to a non-compliance with Water Quality Standards. Regional monitoring activities are meant to maximize the efforts of all monitoring partners using a more cost-effective monitoring design and to best utilize the pooled scientific resources of the region. The Permittee is required to:

- a. Take the lead, coordinate, organize, and facilitate the implementation of the regional monitoring activities with all individual NPDES permit holders and MS4 permit holders discharging into the receiving waters, EPA, DOH, and other participating government agencies and private entities.
- b. Develop and submit to DOH the detailed plan for regional monitoring in the receiving waters within two (2) years from the issuance date of this permit. The final plan must be acceptable to DOH prior to its implementation.
- c. Initiate implementation of the DOH accepted regional monitoring activities plan within 2.75 years from the issuance date of this permit. Regional monitoring activities and data collection must be performed for at least one (1) year to account for seasonal variation.
- d. Complete and submit a final regional monitoring activities report detailing all of the requirements, findings, and conclusions to the DOH within 4.5 years from the issuance date of this permit.

This permit may be modified pursuant to 40 CFR 122.62 to incorporate changes to the monitoring requirements once a regional monitoring program plan has been developed. During the implementation of the final regional monitoring program plan, the Permittee's receiving water sampling and analytical effort will be reallocated to provide a regional assessment of the impact of the discharge. Anticipated modifications to the monitoring program will be coordinated so as to provide a more comprehensive picture of the ecological and statistical significance of monitoring results and to determine cumulative impacts of various pollution sources.

This permit may be modified pursuant to 40 CFR 122.62 to incorporate changes to the monitoring requirements once a regional monitoring program plan has been developed.

E. RECEIVING WATER MONITORING PROGRAM REQUIREMENTS

The Permittee shall conduct receiving water monitoring at shoreline, nearshore, and offshore stations, as described below.

1. Shoreline Water Quality Monitoring

Shoreline monitoring for enterococci is used to determine compliance with water quality criteria specific for marine recreational waters described in Part C of this permit.

The Permittee shall monitor at the following stations:

Station	Location	Latitude	Longitude
S1	Western corner of Sand Island Beach Park	21° 18' 41.1"N	157° 53' 21.4"W
S2	Center of Sand Island Beach Park	21° 17' 59.8"N	157° 53' 02.7"W
S5	East End of Ala Moana Beach Park	21° 17' 14.8"N	157° 50' 46.6"W
S7	Kakaako Park	21° 17′ 34.8″N	157° 51' 53.4"W
S8	Fort DeRussy Beach Park	21° 16' 40.6"N	157° 50' 02.2"W

The following water quality parameters shall be sampled:

Parameter	Units	Sample Type	Monitoring Frequency
Enterococci	CFU/100 mL	Surface Grab	7/Month ¹
Visual Observations		Visual	7/Month ^{1,2}

Sampling shall be scheduled to ensure that not more than 5 consecutive days occur between sampling events.

Inability to conduct shoreline monitoring due to inclement weather or hazardous conditions which may endanger the lives of the facility's personnel shall not constitute a violation of this permit.

Monitoring results shall be reported in a tabular format as an attachment to the monthly DMR and include probable sources and an explanation of any exceedances.

2. Nearshore Water Quality Monitoring

Nearshore water quality monitoring data are used to determine compliance with State water quality standards. Sampling of nearshore stations shall be coordinated with shoreline sampling.

Wind direction and speed, weather, and sea condition shall be recorded for each day of sampling. At each station, unusual color, turbidity, odor, or other physical evidence of sewage shall be noted on the log sheet.

The Permittee shall monitor at the following stations:

Station ¹	Location	Latitude	Longitude
R1	Keehi Lagoon (North)	21° 18' 36.9"N	157° 54' 17.2"W
R2	Keehi Lagoon (South)	21° 18' 08.7"N	157° 54' 16.8"W
R3	Keehi Lagoon (Boat Channel)	21° 18' 16.1"N	157° 53' 42.8"W
C1A	Middle Reef Runway (Airport)	21° 17' 39.0"N	157° 55' 28.0"W
C2A	East Reef Runway (Airport)	21° 17' 21.7"N	157° 54' 36.5"W
C3A	Outside Sand Island Park	21° 17' 16.9"N	157° 53' 34.9"W
C4	Near Kakaako Park	21° 17' 19.9"N	157° 52' 03.3"W
C5A	Near Ala Moana Park	21° 16' 53.6"N	157° 51' 24.2"W

R stations are recreational waters. C stations are nearshore stations between the 10 meter (33 foot) and the 20 meter (66 foot) contour.

The following water quality parameters shall be sampled:

Parameter	Units	Sample Type	Monitoring Stations	Monitoring Frequency
Transparency	meters	Secchi Disc	R, C	1/Month
Visual Observations		Visual	R, C	7/Month
Dissolved Oxygen	mg/L	CDP ¹	R, C	1/Quarter
pH	S.U.	CDP ¹	R, C	1/Quarter
Temperature	°C	CDP ¹	R, C	1/Quarter
Salinity	ppt	CDP ¹	R, C	1/Quarter
Light Extinction Coefficient	k units	Secchi Disc	R, C	1/Quarter
Turbidity	NTU	Grab	C ²	1/Quarter
Total Nitrogen	μg/L	Grab	C ²	1/Quarter
Ammonia Nitrogen	μg/L	Grab	R, C ²	1/Quarter
Nitrate + Nitrite Nitrogen	μg/L	Grab	C ²	1/Quarter
Total Phosphorus	μg/L	Grab	R, C ²	1/Quarter
Chlorophyll <u>a</u>	μg/L	Grab	R, C ²	1/Quarter
Enterococci	CFU/100 mL	Grab	R, C ²	7/Month

C – Monitoring Stations C1A, C2A, C3A, C4, and C5A.

Inability to conduct shoreline monitoring due to inclement weather or hazardous conditions which may endanger the lives of the facility's personnel shall not constitute a violation of this permit.

Monitoring results shall be reported in a tabular format as an attachment to the DMR and include probable sources and an explanation of any exceedances.

R – Monitoring Stations R1 through R3.

A continuous depth profile (CDP) is a plot of depth versus a water quality parameter. The parameter shall be measured on a CDP basis, from within 1 meter below the surface to within 2 meter above the bottom of the bottom at 2 meter intervals.

² At each R and C station, grab samples shall be collected at each station within 1 meter below the surface, mid-depth, and within 2 meters above the bottom.

Transparency, visual observations, and enterococcus shall be reported monthly and all other parameters with quarterly monitoring requirements shall be reported quarterly.

3. Offshore Water Quality Monitoring

Offshore water quality monitoring data are used to determine compliance with State water quality standards. Offshore stations shall be located using a global positioning device (GPS) which affords a high degree of accuracy and precision that allow reoccupation of the station within ±6 meters.

The Permittee shall monitor at the following stations:

Station ¹	Location	Latitude	Longitude
D1	Outside Middle Reef Runway (Airport)	21° 17' 23.2"N	157° 55' 30.1"W
D2	North West ZOM Boundary	21° 16' 56.7"N	157° 54' 35.4"W
D3A	Near North East ZOM Boundary	21° 16' 56.2"N	157° 53' 49.1"W
D4	Outside Kakaako Park	21° 16' 59.3"N	157° 52' 25.5"W
D5	South (Offshore)	21° 16' 37.3"N	157° 51' 31.6"W
E1	North (inshore)	21° 17' 10.5"N	157° 55' 32.8"W
E2	South West ZOM Boundary	21° 16' 43.0"N	157° 54' 39.0"W
E3	Near South East ZOM Boundary	21° 16' 43.3"N	157° 53' 49.9"W
E4	Outside Kakaako Park	21° 16' 47.1"N	157° 52' 33.3"W
E5	Outside Ala Moana Park	21° 16' 22.8"N	157° 51' 40.9"W

D stations are at the 50 meter (165 foot) contour. E stations at the 100 meter (328 foot) contour.

The following water quality parameters shall be sampled:

Parameter	Units	Sample Type	Monitoring Frequency
Transparency	meters	Secchi Disc	1/Month
Visual Observations		Visual	1/Month
Dissolved Oxygen	mg/L	CDP ¹	1/Quarter
рН	s.u.	CDP ¹	1/Quarter
Temperature	°C	CDP ¹	1/Quarter
Salinity	ppt	CDP ¹	1/Quarter
Light Extinction Coefficient	k units	Secchi Disc	1/Quarter
Turbidity	NTU	Grab ²	1/Quarter
Total Nitrogen	μg/L	Grab ²	1/Quarter
Ammonia Nitrogen	μg/L	Grab ²	1/Quarter
Nitrate + Nitrite Nitrogen	μg/L	Grab ²	1/Quarter
Total Phosphorus	μg/L	Grab ²	1/Quarter
Chlorophyll <u>a</u>	μg/L	Grab ²	1/Quarter
Enterococci	CFU/100 mL	Grab ²	1/Month

- A continuous depth profile (CDP) is a plot of depth vs. a water quality parameter Parameter shall be measured on a CDP basis, from within 1 meter below the surface and within 2 meters above the bottom at 2 meter intervals.
- Grab samples shall be collected at each station within 1 meter below the surface, mid-depth, and within 2 meters above the bottom. Results for surface, mid-depth, and bottom shall be reported.

Inability to conduct offshore monitoring due to inclement weather or hazardous conditions which may endanger the lives of the facility's personnel shall not constitute a violation of this permit.

Monitoring results shall be reported in a tabular format as an attachment to the DMR and include probable sources and an explanation of any exceedances. Transparency, visual observations, and enterococcus shall be reported monthly and all other parameters with quarterly monitoring requirements shall be reported quarterly.

4. Nearshore and Offshore Sediment Monitoring

The Permittee shall monitor nearshore sediments and offshore sediments for chemistry and benthic organisms at the stations listed in the table below. The stations correspond to the nearshore stations and coordinates in Part E.2 (C stations) and offshore stations and coordinates in Part E.3 (D and E stations). The Permittee shall include replicates for sediment chemistry and benthic monitoring. The number of samples required at each station is as follows:

Station		Number of Samples at Each Station (including Replicates)	
		Chemistry	Benthic Organisms
	C1A	2	3
Nearshore	C2A	2	3
Nearshore	C3A	2	3
	C5A	2	3
Offshore	D1	2	3
	D2	2	3
	D3A	2	3
	D5	2	3
	E1	1	3
	E2	1	3
	E3	1	3
	E5	1	3

In addition to the sediment samples collected for chemistry and benthic analysis, two subsamples shall be collected at each station for grain size analysis.

Each station shall be monitored during the same calendar quarter each year sampling is required (years one (1) and two (2)) for the parameters indicated in

Parts E.4.a and E.4.b of this permit. Sediment and biological samples shall be collected and processed in accordance with protocols found in *Quality Assurance and Quality Control (QA/QC) for 301(h) Monitoring Programs:*Guidance on Field and Laboratory Methods (EPA 430/9-86-004 1987).

a. Sediment Chemistry

Sediment shall be collected using a 0.16 square meter modified van Veen grab sampler or other method yielding similar results. Sediment samples for chemical analyses shall be taken from the top two (2) centimeters of the grab sample and analyzed for the parameters listed below, using methods developed by National Oceanic and Atmospheric Administration's (NOAA) *National Status and Trends Program for Marine Environmental Quality.* For metals, the Permittee shall attempt to achieve target detection limits five times lower than the Effects Range Low (ERL), or the concentration at which ten (10) percent of the studies show effects. Analytical results shall be reported on a dry weight basis.

Sediment chemistry testing shall be conducted during years one (1) and two (2) of this permit.

Parameter	Units
Grain Size	phi
Total Organic Carbon	percent
Oxidation-reduction potential	EH; mv
Total Nitrogen	mg/kg
Acid volatile sulfides	mg/kg
Metals	
Aluminum	mg/kg
Arsenic	mg/kg
Beryllium	mg/kg
Cadmium	mg/kg
Chromium	mg/kg
Copper	mg/kg
Iron	mg/kg
Lead	mg/kg
Mercury	mg/kg
Nickel	mg/kg
Selenium	mg/kg
Silver	mg/kg
Zinc	mg/kg

Parameter	Units	
DDTs	I	
2,4'-DDT	μg/kg	
4,4'-DDT	μg/kg	
2,4'-DDD	μg/kg	
4,4'-DDD	μg/kg	
2,4'-DDE	μg/kg	
4,4'-DDE	μg/kg	
Chlorinated Pesticides other than D	DDT	
Aldrin	μg/kg	
Alpha-chlordane	μg/kg	
Dieldrin	μg/kg	
Endrin	μg/kg	
Heptachlor	μg/kg	
Heptachlor epoxide	μg/kg	
Hexachlorobenzene	μg/kg	
Lindane (gamma-BHC)	μg/kg	
Mirex	μg/kg	
Trans-Nonachlor	μg/kg	
PCBs		
PCB Congeners ¹	μg/kg	
Polycyclic Aromatic Hydrocarbons	(PAHs)	
Acenaphthene	μg/kg	
Anthracene	μg/kg	
Benz(a)anthracene	μg/kg	
Benzo(a)pyrene	μg/kg	
Benzo(b)fluoranthene	μg/kg	
Benzo(e)pyrene	μg/kg	
Benzo(g,h,i)perylene	μg/kg	
Benzo(k)fluoranthene	μg/kg	
Biphenyl	μg/kg	
Chrysene	μg/kg	
Dibenzo(a,h)anthracene	μg/kg	
2,6-dimethylnaphthalene	μg/kg	
Fluoranthene	μg/kg	
C ₁ -Fluoranthene/Pyrenes	μg/kg	
Fluorene	μg/kg	
Indeno(1,2,3-c,d)pyrene	μg/kg	

Parameter	Units
1-methylphenanthrene	μg/kg
Naphthalene	μg/kg
Perylene	μg/kg
Phenanthrene	μg/kg
Pyrene	μg/kg
2,3,5-trimethylnaphthalene	μg/kg

PCB congeners include PCB Nos. 8, 18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 195, 201, 206, and 209.

b. Benthic Infauna Analyses

Sediment shall be collected using a 0.16 square meters modified van Veen grab sampler. A 7.6 centimeter diameter subsample, to a depth of five (5) centimeters, shall be taken from each grab and sieved for benthic organisms, using a 0.5 millimeter mesh screen. Sample handling and preservation procedures should follow those outlined in "Procedures for Handling and Chemical Analysis of Sediment and Water Samples" (EPA/CE-81-1).

All organisms retained on the sieve shall be counted and identified to the lowest taxon possible. Analyses of community parameters shall include, but not be limited to, the following: number of species, number of individuals per species, number of species per 0.1 square meter, total number of species per station, and total numerical abundance.

Community parameters and statistical analyses shall be presented, along with the data and graphical displays, to illustrate benthic community changes. Statistical analyses should include, but not be limited to, mean, standard deviation, and 95 percent confidence interval; multivariate analyses, including cluster analysis, ordination, and regression, may also be conducted. Additional analyses shall be conducted, as appropriate, to elucidate spatial and temporal trends in the data.

5. Fish Monitoring

The Permittee shall conduct chemical analyses of fish tissue at three offshore stations identified as follows. Each station shall be sampled by hook-and-line or by setting baited lines or traps during the same calendar quarter each year as the nearshore and offshore sediment monitoring.

Station	Location	Latitude	Longitude
Outfall	In the immediate vicinity of the outfall, centered on the given coordinates	21°16′58″N	157°54'21"W
FR3	Maunalua Bay Reference Station	21°17'25.6"N	158°06'57.3"W
FR4	Maunalua Bay Reference Station 2	21°19'37.5"N	158°08'29.4"W

Each station is located at the 100 meter (328 foot) depth contour.

Fish shall be identified to the lowest taxon possible. Analyses of fish parameters shall include: number of individuals per species, standard length, and wet weight (grams). Abnormalities and disease symptoms shall be recorded and itemized (e.g., fin erosion, internal and external lesions, tumors); color photographs showing abnormalities of affected fish may be taken and submitted as part of the annual report. Until more appropriate and precise means become available, fish catch statistics from the State of Hawaii, Division of Fish and Game, shall be reviewed on an annual basis to detect changes in fish abundance and distribution in the vicinity of the facility ocean outfall. A summary and findings of this review shall be reported in the annual report.

During year one (1) of this permit, the Permittee shall select two (2) target fish species for chemical analyses of muscle tissue; these species shall continue to be analyzed in years two (2) through five (5) of this permit. The two (2) fish species shall be somewhat sedentary (e.g., bridled triggerfish, taape, opelu, akule, menpachi) and representative of fish caught by recreational and commercial fishermen near the facility's outfall. To minimize multiple source uncertainties, migratory pelagic species which feed over large areas (e.g., many kilometers) shall not be selected. For selected species, chemical analyses shall be performed annually on a composite sample of standardized muscle tissue collected from at least three individuals. Chemical analyses shall be performed for pollutants specified in the table below. After the third year of testing, the EPA and DOH may reduce the number of congeners tested to include only those congeners detected in samples tested during years one (1) through three (3) of this permit.

Parameter	Units
Total Lipid	percent
Metals	
Arsenic	mg/kg
Mercury	mg/kg
DDTs	
2,4'-DDT	μg/kg
4,4'-DDT	μg/kg
2,4'-DDD	μg/kg
4,4'-DDD	μg/kg

Parameter	Units
2,4'-DDE	μg/kg
4,4'-DDE	μg/kg
Chlorinated Pesticides other than D	•
Aldrin	μg/kg
Alpha-chlordane	μg/kg
Dieldrin	μg/kg
Endrin	μg/kg
Heptachlor	μg/kg
Heptachlor epoxide	μg/kg
Hexachlorobenzene	μg/kg
Lindane (gamma-BHC)	μg/kg
Mirex	μg/kg
Trans-Nonachlor	μg/kg
PCBs	
PCB Congeners ¹	μg/kg
Polycyclic Aromatic Hydrocarbons	(PAHs)
Acenaphthene	μg/kg
Anthracene	μg/kg
Benz(a)anthracene	μg/kg
Benzo(a)pyrene	μg/kg
Benzo(b)fluoranthene	μg/kg
Benzo(e)pyrene	μg/kg
Benzo(g,h,i)perylene	μg/kg
Benzo(k)fluoranthene	μg/kg
Biphenyl	μg/kg
Chrysene	μg/kg
Dibenzo(a,h)anthracene	μg/kg
2,6-dimethylnaphthalene	μg/kg
Fluoranthene	μg/kg
C ₁ -Fluoranthene	μg/kg
Fluorene	μg/kg
Indeno(1,2,3-c,d)pyrene	μg/kg
2-methylphenanthrene	μg/kg
Naphthalene	μg/kg
Perylene	μg/kg
Phenanthrene	μg/kg
Pyrene	μg/kg

Parameter	Units
2,3,5-trimethylnaphthalene	μg/kg

PCB congeners include PCB Nos. 8, 18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 195, 201, 206, and 209.

6. Assimilative Capacity and Zone of Mixing Confirmation Study

a. Within three (3) years of the effective date of this permit, the Permittee shall conduct and submit to DOH a dilution analysis study which identifies minimum and average dilution at the edge of the ZOM (Stations D-2, D-3, E-2, and E-3). In addition, the ZOM Dilution Analysis Study shall verify the presence or absence of assimilative capacity for ammonia nitrogen based on receiving water data at and beyond the edge of the ZOM. The Study shall include an assessment of the remaining assimilative capacity of the receiving water for ammonia nitrogen. The Permittee shall provide an analysis demonstrating the percent assimilative capacity remaining (where assimilative capacity is defined as the percent difference between the ambient concentration and the applicable water quality standard). The analysis should include an assessment of ocean current behavior relative to the ambient monitoring stations. The analysis should demonstrate whether assimilative capacity is increasing or decreasing over time.

The Permittee shall demonstrate that the size of the ZOM is appropriate in order for the discharge to meet water quality standards at the edge of the ZOM, considering the assimilative capacity of the receiving water.

i. Within 180 days of the effective date of this permit, the Permittee shall submit a ZOM Dilution Analysis Study Work Plan to DOH. The Work Plan shall provide a detailed discussion regarding the method by which minimum and average dilution shall be evaluated and specify a time frame for the analysis. In addition, the Work Plan shall include a discussion of the hydraulics of the ZOM, significant variables that impact available dilution within the ZOM, identify data necessary to complete the dilution study, include a plan to acquire necessary data, and identify any known potential challenges to completing the study.

The Permittee shall incorporate all comments from DOH into the Work Plan. Within nine (9) months of the effective date of this permit, the Permittee shall implement the Work Plan with any necessary revisions.

- ii. Within two (2) years of the effective date of this permit, the Permittee shall provide an update to DOH on the status of the dilution analysis and provide any preliminary data and results available at that time.
- iii. Within three (3) years of the effective date of this permit, the Permittee shall submit a final report to DOH which; summarizes the method and results of the ZOM Dilution Analysis Study, identifies and supports a minimum and annual average dilution at the edge of the ZOM, and verifies the presence or absence of assimilative capacity for ammonia nitrogen.
- b. In accordance with 40 CFR Parts 122 and 124, this permit may be modified to include new effluent limitations or permit conditions based on information provided from the ZOM Dilution Analysis Study; or to implement new, revised, or newly interpreted water quality standards applicable to HAR Chapter 11-54-6 water quality standards.

7. Annual Receiving Water Monitoring Programs

The Permittee shall submit an annual receiving water monitoring report by March 31 of each year. The annual receiving water monitoring reports shall summarize and discuss monitoring results for the previous year. Reports shall include, at minimum:

- a. A description of climatic and receiving water characteristics at the time of sampling (weather observations, floating debris, discoloration, wind speed and direction, swell or wave action, time of sampling, tide height, etc.).
- b. A description of sampling stations, including differences unique to each station (e.g., station location, sediment grain size, distribution of bottom sediment, rocks, and shell litter, calcareous worm tubes, etc.). This ocean bottom information shall be recorded at least once per calendar year at the permit designated stations.
- A record shall be kept of the individual(s) performing sampling or measurements. A description of the sample collection and preservation procedures used in the survey shall be included in the report.
- d. A description of methods used for laboratory analyses. Variations in procedure may be acceptable, but any such changes shall be reported to the EPA and DOH, before implementation. All such variations must be reported with the analytical results.

e. An in-depth discussion of monitoring results. All tabulations and computations shall be explained.

8. Protocols and Methods

The following protocols and methods shall be used for sample collection and analyses:

Protocols and Methods for Sample Collection and Analyses			
Water quality samples (collection and process); sediment and biological samples	Quality Assurance and Quality Control (QA/QC) for 301(h) Monitoring Programs: Guidance on Field and Laboratory Methods (EPA 430/9-86-004, 1987)		
Sediment samples handling	Procedures for Handling and Chemical Analysis of Sediment and Water Samples (EPA/CE-81-1, 1981)		
	NOAA's National Status Trends Program for Marine Environmental Quality		
Sediment Analysis	Methods for the Determination of Metals in Environmental Samples		
	Test Methods for Evaluating Solid Waste, SW- 846, Method 8270		
Benthic community structure analysis	Recommended Biological Indices for 301(h) Monitoring Programs (EPA 430/9-86-002, 1987)		
	Bioaccumulation Monitoring Guidance: (4) Analytical Methods for USEPA Priority Pollutants and 301(h) Pesticides in Tissues from Estuarine and Marine Organisms (Tetra Tech, 1986)		
Fish tissue analysis	NOAA's National Status and Trends Program for Marine Environmental Quality		
	Methods for the Determination of Metals in Environmental Samples		
	Test Methods for Evaluating Solid Waste, SW- 846		

F. WASTEWATER POLLUTION PREVENTION PROGRAM

The Permittee shall submit an annual report summarizing critical parameters which impact the operations of the facility to the DOH by March 31 of each year, unless otherwise instructed by the DOH. The report shall include, at a minimum, an evaluation of critical parameters, including the following:

- 1. Flow;
- 2. BOD₅ loading;
- 3. TSS loading;
- 4. Toxic pollutants or impacts of septic wastes;
- 5. Growth potential of the service area;
- 6. Impact of new regulations;
- 7. Bypasses and overflows;
- 8. Effectiveness and condition of the collection system; and,
- 9. Treatment capacity based on additional information.

G. PRETREATMENT REQUIREMENTS

- 1. The Permittee shall be responsible and liable for the performance of all Control Authority pretreatment requirements contained in 40 CFR 403, including any subsequent regulatory revisions. Where 40 CFR 403 or subsequent revisions place mandatory actions upon the Permittee as Control Authority but do not specify a timetable for completion of the actions, the Permittee shall complete the actions within six (6) months from the effective date of this permit or the effective date of the 40 CFR 403 revisions, whichever comes later. For violations of pretreatment requirements, the Permittee shall be subject to enforcement actions, penalties, fines, and other remedies by the EPA or other appropriate parties, as provided in the CWA. The DOH and EPA may initiate enforcement action against a nondomestic user for noncompliance with applicable standards and requirements, as provided in the CWA.
- 2. The Permittee shall enforce the requirements promulgated under Sections 307(b), 307(c), 307(d), and 402(b) of the CWA with timely, appropriate, and effective enforcement actions. The Permittee shall cause non-domestic users subject to the federal categorical standards to achieve compliance no later than the date specified in those requirements or, in the case of a new non-domestic user, upon commencement of the discharge.
- 3. The Permittee shall perform the pretreatment functions as required in 40 CFR 403 including, but not limited to:
 - a. Implement the necessary legal authorities to fully implement the pretreatment regulations as provided in 40 CFR 403.8(f)(1);
 - b. Enforce the national pretreatment standards for prohibited discharges and categorical standards as provided in 40 CFR 403.5 and 403.6, respectively;
 - c. Implement the pragmatic functions as provided in 40 CFR 403.8(f)(2); and
 - d. Provide the requisite funding and personnel to implement the pretreatment program as provided in 40 CFR 403.8(f)(3).
- 4. The Permittee shall comply with the urban area pretreatment requirements under Section 301(h) of the CWA and the implementing requirements in 40 CFR 125. The Permittee's actions to comply shall include the following:
 - a. During each calendar year, maintaining a rate of significant noncompliance, as defined in 40 CFR 403.8(f)(2)(vii), for significant industrial users (SIUs) of no more than 15 percent of the total number of significant industrial users.

The 15 percent noncompliance criteria includes only significant industrial users that are in significant noncompliance and which have not received at least a second level formal enforcement action from the Permittee, in accordance with the Permittee's Enforcement Response Plan. A second level enforcement action is an Administrative Notice and Order to achieve timely compliance.

Part G.4.d of this permit contains a schedule for evaluating local limits. As a consequence of any new local limits, some significant industrial users may need time to come into compliance with these new limits. In any such cases, the Permittee shall issue a Compliance Findings of Violation and Order. The Order shall contain a schedule for achieving compliance with the new local limits. Significant industrial users receiving such Orders will not be included in the 15 percent noncompliance criteria.

- b. Providing the annual analysis regarding local limits required in 40 CFR 125.65(c)(1)(iii).
- c. Evaluating local limits and developing any needed local limits as applicable pretreatment requirements, in accordance with 40 CFR 125.65. The local limits evaluation shall include, but is not limited to:
 - Identifying pollutants of concern. This evaluation shall address each toxic pollutant introduced by an industrial Permittee as required under 40 CFR 125.65;
 - (2) Characterizing industrial, commercial, and residential toxic pollutant loadings to the treatment plant;
 - (3) Developing allowable headworks loadings and an allocation strategy for pollutants requiring local limits; and,
 - (4) Developing narrative or numeric local limits when technically justified.
- d. The Permittee shall comply with Part G.4.c of this permit according to the following schedule:
 - (1) Submit an interim progress report to the DOH and EPA six (6) months after the permit effective date;
 - (2) Submit a local limits development report to the DOH and EPA 12 months after the permit effective date; and,

- (3) Complete the reissuance of any SIU permits necessary to implement local limits within 6 months after local limits approval by the DOH and EPA.
- 5. The Permittee shall update and resubmit the BMP-based program for controlling animal and vegetable oil and grease within 180 calendar days of the adoption of this permit.
- 6. The Permittee shall submit annually to the DOH and EPA a report describing its pretreatment activities over the previous year. In the event that the Permittee is not in compliance with any conditions or requirements of this permit, then the Permittee shall also include the reasons for noncompliance and state how and when the Permittee shall comply with such conditions and requirements. This annual report shall cover operations from January 1 through December 31, and is due on March 31 of the following year. The report shall contain, but not be limited to, the following information:
 - a. A summary of analytical results from representative, flow proportioned, 24-hour composite sampling of the facility's influent and effluent for those pollutants the EPA has identified under Section 307(a) of the Clean Water Act which are known or suspected to be discharged by nondomestic users. This will consist of wastewater sampling and analysis in accordance with the minimum frequency of analysis stated in Part A of this permit. The Permittee is not required to sample and analyze for asbestos. Sludge monitoring is covered under Part H of this permit. The Permittee shall also provide any influent or effluent monitoring data for nonpriority pollutants which the Permittee believes may be causing or contributing to interference or pass through. Sampling and analysis shall be performed with the techniques prescribed in 40 CFR 136;
 - b. A discussion of upset, interference, or pass through incidents, if any, at the treatment plant which the Permittee knows or suspects were caused by non-domestic users of the collection system. The discussion shall include the reasons why the incidents occurred, the corrective actions taken, and, if known, the name and address of the nondomestic user(s) responsible. The discussion shall also include a review of the applicable pollutant limitations to determine whether any additional limitations, or changes to existing requirements, may be necessary to prevent interference or pass through;
 - c. An updated list of the Permittee's SIUs including their names and addresses, and a list of deletions, additions, and SIU name changes keyed to the previously submitted list. The Permittee shall provide a brief explanation for each change. The list shall identify the SIUs subject to

federal categorical standards by specifying which set(s) of standards are applicable to the SIU. The list shall also indicate which SIUs are subject to local limitations:

- d. The Permittee shall characterize the compliance status of each SIU by providing a list or table which includes the following information:
 - (1) Name of the SIU;
 - (2) Category, if subject to federal categorical standards;
 - (3) The type of wastewater treatment or control processes in place;
 - (4) The number of samples taken by the Permittee during the year;
 - (5) The number of samples taken by the SIU during the year;
 - (6) For an SIU subject to discharge requirements for total toxic organics, whether all required certifications were provided;
 - (7) A list of the standards violated during the year. Identify whether the violations were for categorical standards or local limits;
 - (8) Whether the facility is in significant non-compliance as defined in 40 CFR 403.8(f)(2)(vii) at any time during the year; and,
 - (9) Summary of enforcement or other actions taken during the year to return the SIU to compliance. Describe the type of action, final compliance date, and the amount of fines and penalties collected, if any. Describe any proposed actions for bringing the SIU into compliance.
- e. A brief description of any programs the Permittee implements to reduce pollutants from non-domestic users that are not classified as SIUs;
- f. A brief description of any significant changes in operating the pretreatment program which differ from the previous year including, but not limited to, changes concerning the program's administrative structure, local limits, monitoring program or monitoring frequencies, legal authority, enforcement policy, funding levels, or staffing levels;
- g. A summary of the annual pretreatment budget, including the cost of pretreatment program functions and equipment purchases; and,

- h. A summary of activities to involve and inform the public of the program including a copy of the newspaper notice, if any, required by 40 CFR 403.8(f)(2)(vii).
- i. Annual reports shall be submitted to the following agencies:
 - (a) State of Hawaii
 Department of Health
 Environmental Management Division
 Clean Water Branch
 919 Ala Moana Boulevard, Room 301
 Honolulu, HI 96814-4920
 - (b) Regional Pretreatment Coordinator (WTR-2-3) R9Pretreatment@epa.gov

H. SLUDGE/BIOSOLIDS REQUIREMENTS

- 1. Sludge Use/Disposal Requirements
 - a. General Conditions and Requirements
 - (1) Acceptable Sludge Use/Disposal Practices
 - (a) The Permittee shall dispose of all sludge generated at the facility at a municipal solid waste landfill, at a sludge surface disposal site, by land application, or by transferring the sludge to another party for further treatment, use, or disposal in accordance with all applicable portions of 40 CFR Parts 257, 258, 503 and HAR, Chapters 11-58.1 and 11-62.
 - (b) Storage of sludge for over two (2) years from the time it is generated shall be considered to be surface disposal. The storage site shall meet all the requirements of a surface disposal site under 40 CFR 503 Subpart C and HAR, Chapters 11-58.1 and 11-62. If the Permittee desires to store sludge for longer periods of time prior to final disposal, the Permittee shall submit a written request to the EPA Regional Sludge Coordinator and Director containing the information required under 40 CFR Section 503.20(b).
 - (c) The Permittee shall dispose of sludge containing more than 50 mg/kg of PCBs in accordance with 40 CFR 761.
 - (d) If the Permittee desires to dispose of sludge using a method not listed above, the Permittee shall submit a request for permit modification to EPA Regional Sludge Coordinator and Director 180 calendar days prior to the commencement of the alternate disposal practice.
 - (2) Duty to Mitigate
 - (a) The Permittee shall be responsible for ensuring the following:
 - (i) All sludge produced at its facility is used/disposed of in accordance with 40 CFR Parts 257, 258, 503, and HAR, Chapters 11-58.1 and 11-62, whether the Permittee uses/disposes of the sludge itself or transfers it to another party for further treatment, use, or disposal.

- (ii) Subsequent preparers, appliers, or disposers of the sludge are informed of the requirements under 40 CFR Parts 257, 258, 503, and HAR, Chapters 11-58.1 and 11-62.
- (iii) Sludge is not allowed to enter State waters, or to contaminate an underground drinking water source.
- (iv) Sludge treatment, storage, use, and disposal do not create a public nuisance.
- (v) Haulers who ship non-Class A sludge off-site for additional treatment, use, or disposal take all necessary measures to keep sludge contained.
- (b) The Permittee shall take all reasonable steps to prevent or minimize any sludge use or disposal which has a likelihood of adversely affecting human health or the environment.

(3) Other Conditions

- (a) The Director may promptly modify or revoke and reissue this permit to incorporate any applicable standard for sewage sludge use or disposal promulgated under the Act Section 405(d), or adopted under HRS, Chapter 342D, or HAR, Chapter 11-62, if the standard is more stringent than the standard in this permit or covers a pollutant or practice not covered in this permit.
- (b) The sludge requirements in this part are supplemental to the other conditions of this permit. In the event of a conflict, those requirements more protective of the environment shall apply.
- (c) The requirements in 40 CFR 503 is enforceable by the EPA independently of being included in this permit.
- b. Sludge Limitations and Monitoring Requirements
 - (1) Sludge shall be limited and monitored by the Permittee as specified below:
 - (a) Sludge Disposed of in Municipal Solid Waste Landfills

Monitoring Parameter/Test Procedures	Limitation	Monitoring Frequency
Paint Filter Test (EPA Method 9095B)	No "Free Liquids" ¹	1/Year

Monitoring Parameter/Test Procedures	Limitation	Monitoring Frequency
Toxicity Characteristic Leaching Procedure (TCLP) Test ²	2	1/Year
Priority Pollutants ³	N/A	1/Year⁴

N/A = Not Applicable

- ¹ "Free Liquids" as defined in EPA Method 9095.
- The parameters to be tested by the TCLP test and their limitations are specified in 40 CFR 261.24, Table 1 - Maximum Concentration of Contaminants for the Toxicity Characteristic.
- ³ Priority pollutants are listed under the Act Section 307(a).
- The Permittee shall test for priority pollutants more frequently if required under the pretreatment program.
 - (b) Sludge Disposed of in Surface Disposal Sites (Sludge-only Landfill or Disposal on Land Not for the Purpose of Improving Plant Growth)

		Limitation (Mg/kg)						
Parameter	0<25 m	25<50 m	50<75 m	75<100 m	100<125 m	125<150 m	>150 m	Monitoring Frequency
Arsenic ¹	30	34	39	46	53	62	73	2
Chromium ¹	200	220	260	300	360	450	600	2
Nickel ¹	210	240	270	320	390	420	420	2
TCLP Test ³	3				1/Year			
Priority Pollutants ⁴		N/A				1/Year ⁵		

m = Meter

N/A = Not Applicable

- The Permittee shall monitor for this parameter only if sludge is disposed of in a unit with no liner and leachate system. Limitations are based on the distance (meters) from the active sludge unit boundary to the nearest property line.
- ² Monitoring frequency shall be determined by the following table:

Annual Production, Dry Weight (Metric Tons/Year)	Monitoring Frequency
0 - 290	1/Year (November)
290 – 1,500	1/Quarter (Feb/May/Aug/Dec)
1,500 – 15,000	6/Year (Feb/Apr/Jun/Aug/Oct/Dec)
>15,000	1/Month

The parameters to be tested by the TCLP test and their limitations are specified in 40 CFR 261.24, Table 1 - Maximum Concentration of Contaminants for the Toxicity Characteristic.

- ⁴ Priority pollutants are listed under the CWA Section 307(a).
- The Permittee shall test for priority pollutants more frequently if required under the pretreatment program.
 - (c) Sludge that is Land-Applied (Added to Soil for the Purpose of Improving Plant Growth)

The Permittee shall obtain and comply with the Wastewater Management Individual Permit, issued by the DOH, Wastewater Branch.

- c. Requirements for Sludge Disposed of in Municipal Solid Waste Landfill
 - (1) The Permittee shall dispose sludge in municipal solid waste landfills that meet the requirements of 40 CFR 258; and HAR, Chapter 11-58.1.
 - (2) Sludge shall not contain "free liquids" as defined by EPA Method 9095B (Paint Filter Liquids Test).
- Requirements for Sludge Disposed of in Surface Disposal Sites (Sludge-only Landfill or Disposal on Land Not for the Purpose of Improving Plant Growth)
 - (1) Sludge that is disposed of in a sludge-only landfill shall meet the general requirements, pollutant limits (for surface disposal sites without liners and leachate systems), management practices, and operational standards in 40 CFR 503 Subpart C and additional pollutant limits requested by the Director.
 - (2) The Permittee shall have a qualified groundwater scientist develop a groundwater monitoring program for the surface disposal site or certify that the placement of sludge on the site will not cause aquifer contamination.
- e. Requirements for Sludge that is Land-Applied (Added to Soil for the Purpose of Improving Plant Growth)

The Permittee shall obtain and comply with the Wastewater Management Individual Permit, issued by the DOH, Wastewater Branch.

- f. Notification Requirements
 - (1) If sludge other than exceptional quality sludge is shipped to another state or to Indian lands, the Permittee shall notify the permitting authorities in the receiving state or Indian land (the EPA Regional Office

for that area and the State or Indian authorities) 60 calendar days prior to shipment.

- (2) The Permittee shall notify the EPA Regional Sludge Coordinator and the Director of any non-compliance that may seriously endanger public health or the environment within 24 hours after becoming aware of the non-compliance. A written non-compliance report shall be submitted, postmarked, or faxed within five (5) working days after the Permittee becomes aware of the non-compliance.
- (3) The Permittee shall report all other instances of non-compliance not reported under Part H.1.f.(2) at the time discharge monitoring reports are submitted as required by Part I.1 of this permit.

g. Annual Report

By February 19th of each year, the Permittee shall submit an annual report on sludge management activities during the previous calendar year to the EPA Regional Sludge Coordinator and the Director. The report shall provide the following information:

- (1) Total amount of sludge generated that year and a breakdown of the usage/disposal methods employed (in dry weight, metric tons).
- (2) Results of all monitoring required by Part H.1.b.
- (3) If sludge was disposed in a municipal solid waste landfill, then the Permittee shall include the following certification statement:

"I certify under the penalty of law, that the paint filter test and toxicity characteristic leaching procedure test requirements have been met, and that vector attraction reduction requirements have been met by the municipal solid waste landfill. This determination has been made under my direction and supervision in accordance with the system designed to assure that qualified personnel properly gather and evaluate the information used to determine that the necessary requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

- (4) If sludge was disposed in a surface disposal site, the following information shall be included:
 - (a) Requirements specified in 40 CFR 503.27.

- (b) Name and mailing address of surface disposal operator if different from Permittee.
- (c) Location (street address and latitude and longitude) of surface disposal site.
- (d) Results of groundwater monitoring, or a copy of a certification by a groundwater scientist (including the scientist's name, title, and phone number) that the placement of sludge at the surface disposal site will not cause aquifer contamination.
- (5) If sludge was land-applied, the following information shall be included:
 - (a) Requirements specified in 40 CFR 503.17(a) for all facilities preparing sludge for land application or reference to that facility's report, if submitted to EPA separately.
 - (b) Names and addresses of all facilities receiving the non-exceptional quality sludge, including land appliers and those facilities providing further treatment/blending prior to land application.
 - (c) Location of land application sites of non-exceptional quality sludge (street address, latitude and longitude) and sizes of parcels.
 - (d) Crops grown, agronomic rate for the crops grown, and certification by the land appliers of non-exceptional quality sludge that the sludge was applied at a rate not exceeding the agronomic rate determined for each crop.
 - (e) Copies of other certification statements by land appliers of non-exceptional quality sludge.
- (6) If sludge was stored, the following information shall also be included:
 - (a) Age of stored sludge.
 - (b) Name and mailing address of operator of storage site if different from Permittee.
 - (c) Location of stored sludge (street address, latitude and longitude).
- (7) If sludge was disposed using other methods, descriptions of the methods employed and the locations (street address, latitude and longitude) of the usage/disposal sites shall be included.

- (8) Annual reports shall be submitted to DOH through the CWB Compliance Submittal Form for Individual NPDES Permits and NGPCs. This form is accessible through the e-Permitting Portal website at: https://eha.cloud.doh.hawaii.gov/epermit/View/home.aspx. You will be asked to do a one-time registration to obtain your login and password. After you register, click on the Application Finder tool to locate the form. Follow the instruction to complete and submit this form. All submissions shall include a CD or DVD containing the downloaded e-Permitting submission and a completed Transmittal Requirements and Certification Statement for e-Permitting NPDES/NGPC Compliance Submissions Form, with original signature and date.
- (9) A copy of the Annual report shall be submitted to EPA and DOH at the following addresses:

Regional Sludge Coordinator (WTR-2-3) Environmental Protection Agency, Region 9 75 Hawthorne Street San Francisco, CA 94105

Wastewater Sludge Program Manager Wastewater Branch Environmental Management Division Department of Health 919 Ala Moana Boulevard, Room 309 Honolulu, HI 96814-4920

2. Requirements for Receiving Sludge

a. Approval

Upon written request by the Permittee and approval by the Director, the Permittee may pump sludge hauled from the Permittee's other wastewater treatment plants directly to the facility's anaerobic digesters through a sludge receiving station. The sludge receiving station shall be equipped to record the source and amount of sludge pumped to the digesters.

b. Reporting

The Permittee shall submit a monthly log reporting the sources and amounts of the sludge pumped into the digester during the calendar month. The log shall be submitted with the monthly DMRs.

c. Retraction

The Director reserves the right to retract the approval should the facility's treatment design capacity be exceeded, the effluent discharge monitoring results be in non-compliance with this permit, or the Director deems necessary.

I. REPORTING REQUIREMENTS

- 1. Schedule of Submission
 - a. Effluent and Receiving Water Monitoring Programs
 - (1) Effluent Monitoring Program

Within 30 calendar days after the effective date of this permit, the Permittee shall submit an updated/revised Effluent Monitoring Program which complies with Part A of this permit to the Director for approval.

- (2) The Programs(s) shall include at a minimum, but not be limited to the following:
 - (a) Sampling location map;
 - (b) Sample holding time;
 - (c) Preservation techniques;
 - (d) Test method and method detection level; and
 - (e) Quality control measures.

The DOH reserves the right to require the Permittee to revise the program, as appropriate, pursuant toward compliance with the terms and conditions of this permit.

(3) Monitoring shall be conducted according to test procedures approved under 40 CFR 136 with detection limits low enough to measure the compliance with Part A of this permit. For cases where the discharge limitation is below the Minimum Level of the appropriate test procedure, the compliance shall be based upon the Minimum Level of the method.

If a test method has not been promulgated for a particular constituent, the Permittee may use any suitable method for measuring the level of the constituent in the discharge provided the Permittee submit a description of the method or a reference to a published method.

- 2. Transmittal and Monitoring Results Reporting Requirements
 - a. Certification of Transmittals

Submit all information in accordance with HAR, Section 11-55-07(b), with the following certification statement by an appropriate signatory:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations."

b. Include "NPDES Permit No. HI 0020117" on each transmittal.

Failure to provide the assigned permit number for this facility on future correspondence or transmittals may be a basis for delay of the processing of the document(s).

- c. Reporting of Discharge and Monitoring Results
 - (1) All wastewater monitoring, and biosolids/sludge monitoring, sample preservation, and analyses shall be performed as described in the most recent edition of 40 CFR 136, unless otherwise specified in this permit. All receiving water monitoring, sample preservation, and analyses shall be performed as specified in this permit.
 - (2) In accordance with 40 CFR 122.45(c), effluent analyses for metals shall be reported as total recoverable.
 - (3) Monitoring results shall be reported on a Discharge Monitoring Report (DMR) form (EPA No. 3320-1). The results of all monitoring required by this permit shall be submitted in a format which allows direct comparison with the limitations in Part A and other requirements of this permit.
 - (4) For the purposes of reporting, the Permittee shall use the reporting threshold equivalent to the laboratory's method detection limit (MDL). As such, the Permittee must conduct influent and effluent analyses in accordance with the method specified Appendix 1 of this permit and must utilize a standard calibration where the lowest standard point is equal to or less than the concentration of the minimum level (ML).
 - (a) The MDL is defined as the minimum concentration of an analyte that can be detected with 99% confidence.

(b) The ML is defined as the concentration in a sample equivalent to the concentration of the lowest calibration standard analyzed in a specific analytical procedure, assuming that all the method-specific sample weights, volumes, and processing steps have been followed. Where a promulgated ML is not available, an interim ML is calculated using a factor of 3.18 times the MDL.

Analytical results at or above the laboratory's ML shall be reported on DMRs as the measured concentration. If a value is less than the MDL, the Permittee shall report "less than [numeric value of the MDL]" and if a value is less than the ML, the Permittee shall report "less than [numeric value of the ML]."

For purposes of calculating averages, zero shall be assigned for values less than the MDL and the numeric value of the MDL shall be assigned for values between the MDL and the ML. If the resulting average value is less than the MDL, the Permittee shall report "less than [numeric value of the MDL]" and if the resulting average value is less than the ML, the Permittee shall report "less than [numeric value of the ML]." If the resulting average value is equal to or greater than the ML, the Permittee must report and use the actual value.

The resulting average value must be compared to the WQBEL or the ML, whichever is greater, in assessing compliance.

- (5) Should there be no discharges during the monitoring period, the DMR form shall so state.
- (6) All receiving water data shall be submitted annually to EPA's Storage and Retrieval Date Warehouse (STORET) in accordance with Water Quality Exchange (WQX) specifications (or equivalent data base/submission guidelines, as directed by the EPA).
- d. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant at location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified in 40 CFR 136, the results of such monitoring shall be included in the calculation and reporting of the values required in the DMR form. The increased frequency shall also be indicated.

e. Submittal of Monitoring Results Using NetDMR

The Permittee shall submit DMRs required under this permit electronically using NetDMR. NetDMR is accessed from: http://www.epa.gov/netdmr.

DMRs shall be submitted electronically no later than the 28th day of the month following the completed reporting period. Once a Permittee begins submitting DMRs using NetDMR, it will no longer be required to submit hard copies of DMRs to the Director, unless otherwise requested by the Director.

f. Schedule of Submission

(1) The Permittee shall submit reports to the Director as specified below.

Report	Reporting Period	Report Due Date
Discharge Monitoring Report	1/Month	28 th day of the month following completed reporting period
SIU Compliance Status Report	2/Year	July 31 and December 31 of each year
Sludge/Biosolids Annual Report	1/Year	February 19 of each year
Pretreatment Annual Report	1/Year	March 31 of each year
Receiving Water Monitoring Report	1/Year	March 31 of each year
Wastewater Pollution Prevention Program Annual Report	1/Year	March 31 of each year
Initial Investigation TRE Workplan	1/Permit Term	90 days after permit effective date
ZOM Dilution Analysis Study Work Plan	1/Permit Term	180 days after permit effective date
ZOM Dilution Analysis Study Report	1/Permit Term	3 years after permit effective date

Signed copies of monitoring and all other reports required by this permit, except those described in Part I.2.e of this permit, shall be submitted to the Director at the following addresses or as otherwise specified:

Director of Health
Department of Health
Environmental Management Division
Clean Water Branch

All reports, notifications, and updates to information on file shall be submitted through the CWB Compliance Submittal Form for Individual

NPDES Permits and Notice of General Permit Coverages (NGPCs). This form is accessible through the e-Permitting Portal website at: https://eha-cloud.doh.hawaii.gov/epermit/View/home.aspx. If not already registered, you will be asked to do a one-time registration to obtain your login and password. After you register, click on the Application Finder tool to locate the form. Follow the instructions to complete and submit this form. All submissions shall include a CD or DVD containing the downloaded e-Permitting submission and a completed Transmittal Requirements and Certification Statement for e-Permitting NPDES/NGPC Compliance Submissions Form, with original signature and date.

Duplicate copies of the annual pretreatment and sludge reports shall be submitted to the Regional Administrator as specified in Parts G and H of this permit.

(2) The Permittee shall submit reports to the Director and EPA Region 9 Water Division's Monitoring and Assessment Office (WTR-2) as specified below.

Report	Reporting Period	Report Due Date
Shoreline Water Quality Monitoring	1/Month	28 th day of the month following completed reporting period
Nearshore Water Quality Monitoring	1/Quarter	28 th day following completed reporting period
Offshore Water Quality Monitoring	1/Quarter	28 th day following completed reporting period
Nearshore and Offshore Sediment (chemistry and benthic organisms)	1/Year	March 31 of each year
Fish Monitoring	1/Year	March 31 of each year
Receiving Water data entry into STORET	1/Year	March 31 of each year

Receiving water data shall be submitted electronically, directed by EPA, to the following address:

U.S. Environmental Protection Agency Monitoring and Assessment Office, WTR-2 75 Hawthorne Street San Francisco, CA 94105

3. Reporting of Noncompliance, Unanticipated Bypass, or Upset

The following requirements replace the 24-hour notice requirements for bypasses (Standard NPDES Conditions Section 17(d)(2)(B) and 40 CFR Section 122.41(1)(6)(ii)(A)) and upsets (Standard NPDES Conditions Section 18(c)(3) and 40 CFR Section 122.41(1)(6)(ii)(B)).

a. Immediate Reporting

- (1) In the event of a bypass, upset, or sewage spill resulting in or contributing to a discharge to State waters, the Permittee shall orally notify the DOH at the time the Permittee's authorized personnel become aware of the circumstances, but no later than 24 hours after the event.
- (2) In the event of a bypass, upset, or sewage spill resulting in or contributing to a discharge of 1,000 gallons or more to State waters, the Permittee shall orally notify the DOH and the AP news wire services at the time the Permittee's authorized personnel become aware of the circumstances, but no later than 24 hours after the event.
- (3) In the event of an exceedance of a daily maximum discharge limitation, if any exist, the Permittee shall orally notify the DOH at the time the Permittee's authorized personnel becomes aware of the circumstances, but no later than 24 hours after the event.

b. Contact for Oral Reports

- (1) The Permittee shall make oral reports during regular office hours (7:45 a.m. to 4:30 p.m.) to the DOH, Clean Water Branch (CWB) at (808) 586-4309.
- (2) The Permittee shall make oral reports outside of regular office hours to the State-On-Scene Coordinator (SOSC) from the Office of Hazard Evaluation and Emergency Response (HEER) at (808) 226-3799, or to the State Hospital Operator at 247-2191.

c. Written Submission

(1) For those non-compliances requiring immediate reporting, the Permittee shall submit a written non-compliance report. The Permittee shall submit the report to the DOH, CWB, at the address listed in Part I.2.e.(1) within five (5) working days after the Permittee's authorized personnel becomes aware of the noncompliance.

- (2) The report shall contain a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times; if the non-compliance has not been corrected, the anticipated time it is expected to continue; public notice efforts, if any; clean-up efforts, if any; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the non-compliance.
- (3) The Director may waive the written report or the five (5) working day deadline on a case-by-case basis for spills, bypasses, upsets, and violations of daily maximum discharge limitations if the oral report has been received within 24 hours of the non-compliance or when the Permittee's authorized personnel becomes aware of the non-compliance.

d. Other Non-Compliance

The Permittee shall report all other instances of noncompliance not reported under Part I.3.a at the time DMRs are submitted as required by Part I.2 of this permit. The noncompliance reports shall contain the information requested in Part I.3.c.(2) of this permit.

4. Other Reporting Requirements

The Permittee shall comply with the reporting requirements of 40 CFR 122.41(I)(1) through 122.41(I)(5), and 122.41(I)(8) as incorporated by Standard NPDES Permit Conditions, Section 16. Parts I.1 and I.2 of this permit supersede the requirements of 40 CFR 122.41(I)(6) and 122.41(I)(7).

5. Types of Sample

- a. "Grab sample" means an individual sample collected at a randomly-selected time over a period not exceeding 15 minutes.
- b. "Composite sample" means a combination of at least eight (8) sample aliquots, collected at periodic intervals during the operating hours of the facility over a 24-hour period. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically.

J. SPECIAL CONDITIONS

- 1. Wastewater treatment facilities subject to this permit shall be supervised and operated by persons possessing certificates of appropriate grade, as determined by the DOH. If such personnel are not available to staff the wastewater treatment facilities, a program to promote such certification shall be developed and enacted by the Permittee. Activities of this program shall be reported in the Annual Report in Part F of this permit.
- 2. The Permittee shall maintain in good working order a sufficient alternate power source for operating the wastewater treatment and disposal facilities. All equipment shall be located to minimize failure due to moisture, liquid spray, flooding, and other physical phenomena. The alternate power source shall be designed to permit inspection and maintenance and shall provide for periodic testing. If such alternate power source is not in existence, the Permittee shall halt, reduce, or otherwise control all discharges upon the reduction, loss, or failure of the primary source of power.
- This permit may be reopened and modified, in accordance with NPDES regulations at 40 CFR 122 and 124, as necessary, to include additional conditions or limitations based on newly available information.
- 4. From the effective date of this permit, the Permittee is required to commence all water quality sampling in accordance with the following:
 - a. Daily permit sampling frequency Begin sampling the next calendar day.
 - b. Weekly and bi-weekly permit sampling frequency Begin sampling the first complete calendar week.
 - c. Monthly and bi-monthly permit sampling frequency Begin sampling the first complete calendar month.
 - d. Quarterly permit sampling frequency Begin sampling the first complete calendar quarter.
 - e. Annual permit sampling frequency and permit effective date is between January 1st and September 30th Begin sampling this calendar year.
 - f. Annual permit sampling frequency and permit effective date is between September 30th and December 31st Begin sampling the next calendar year.

- 5. Failure to comply with any condition, requirement, and/or limitation in this permit is an enforceable violation and your NPDES permit may be terminated. If you violate Hawaii Revised Statutes (HRS), Chapter 342D, you may be subject to penalties of up to \$25,000 per violation per day and up to two (2) years in jail. Falsification of information, including providing information in the NPDES application that does not match what is actually occurring at the project site/facility, may result in criminal penalties for the Permittee and their authorized representative as provided in Clean Water Act, Section 309 and HRS, Section 342D-35.
- 6. Pollutant parameters with specific numerical limitations in this Permit are authorized to be discharged only in accordance with the provisions of this Permit. A discharge that exceeds a specific numerical limitation in this Permit is a violation HRS, Chapter 342D.
- 7. Pollutant parameters disclosed in the NPDES application for this facility are only authorized to be discharged in accordance with the State Water Quality Standards (WQS).
 - a. If you were not given an effluent limit in the NPDES permit for a disclosed pollutant, your discharge of this pollutant is still required to comply with applicable WQS. This NPDES permit is not a variance from WQS, and it does not absolve you from complying with WQS.
 - b. A discharge of a pollutant that was not disclosed in the NPDES application for this facility is an unauthorized discharge and a violation of HRS, Chapter 342D. An unauthorized discharge occurs when a pollutant was not disclosed in the NPDES application for this facility but is detected by monitoring only requirements in tis permit or by other means determined by the DOH.
- 8. Discharging effluent in a location that is not authorized in your NPDES permit is a violation of HRS, Chapter 342D.
- 9. Failure to submit a DMR, report and/or study by the due date specified in this Permit is a violation of HRS, Chapter 342D.
- 10. Failure to submit required monitoring data for a pollutant parameter in a DMR by the due date specified in this Permit is a violation of HRS, Chapter 342D and a Permit effluent limit violation for that pollutant parameter.

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K. LOCATION AND ZOM AND RECEIVING WATER STATION MAPS

(See Figures 1 and 2)

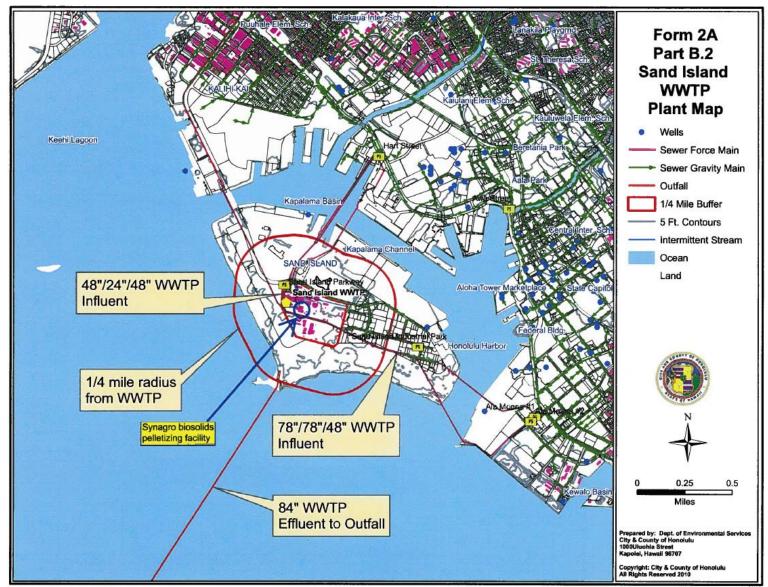


Figure 1 – Location Map

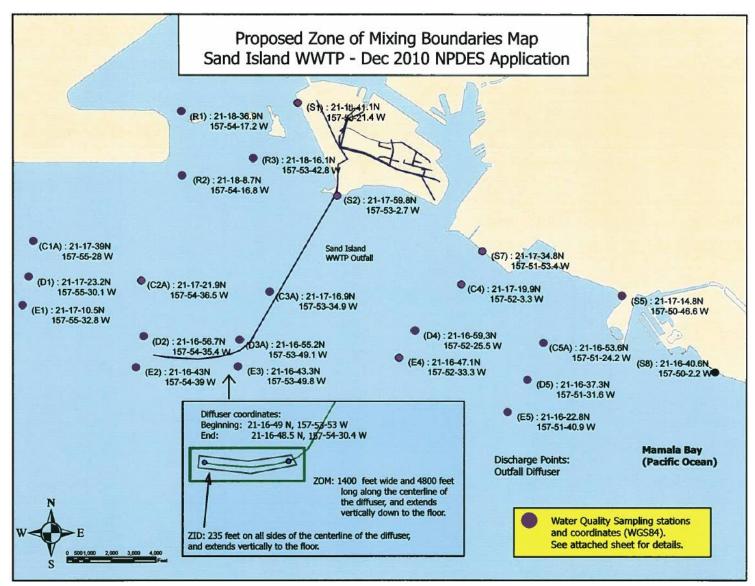


Figure 2 – Zone of Mixing (ZOM), Zone of Initial Dilution (ZID), and Receiving Water Monitoring Locations

APPENDIX 1 – MONITORING METHODS

Discharge Parameter	Sample Type	Analytical Method
Metals		1
Antimony	24-Hour Composite	As specified in 40 CFR 136
Arsenic	24-Hour Composite	As specified in 40 CFR 136
Beryllium	24-Hour Composite	As specified in 40 CFR 136
Cadmium	24-Hour Composite	As specified in 40 CFR 136
Chromium	24-Hour Composite	As specified in 40 CFR 136
Copper	24-Hour Composite	As specified in 40 CFR 136
Lead	24-Hour Composite	As specified in 40 CFR 136
Mercury	24-Hour Composite	As specified in 40 CFR 136
Nickel	24-Hour Composite	As specified in 40 CFR 136
Selenium	24-Hour Composite	As specified in 40 CFR 136
Silver	24-Hour Composite	As specified in 40 CFR 136
Thallium	24-Hour Composite	As specified in 40 CFR 136
Zinc	24-Hour Composite	As specified in 40 CFR 136
Pesticides		, , , , , , , , , , , , , , , , , , , ,
Aldrin	24-Hour Composite	As specified in 40 CFR 136
Chlordane	24-Hour Composite	As specified in 40 CFR 136
Dieldrin	24-Hour Composite	As specified in 40 CFR 136
4,4'-DDT	24-Hour Composite	As specified in 40 CFR 136
4,4'-DDE	24-Hour Composite	As specified in 40 CFR 136
4,4'-DDD	24-Hour Composite	As specified in 40 CFR 136
Alpha-Endosulfan	24-Hour Composite	As specified in 40 CFR 136
Beta Endosulfan	24-Hour Composite	As specified in 40 CFR 136
Endosulfan Sulfate	24-Hour Composite	As specified in 40 CFR 136
Endrin	24-Hour Composite	As specified in 40 CFR 136
Endrin Aldehyde	24-Hour Composite	As specified in 40 CFR 136
Heptachlor	24-Hour Composite	As specified in 40 CFR 136
Heptachlor Epoxide	24-Hour Composite	As specified in 40 CFR 136
Alpha BHC	24-Hour Composite	As specified in 40 CFR 136
Beta BHC	24-Hour Composite	As specified in 40 CFR 136
Delta BHC	24-Hour Composite	As specified in 40 CFR 136
Gamma BHC (Lindane)	24-Hour Composite	As specified in 40 CFR 136
Toxaphene	24-Hour Composite	As specified in 40 CFR 136
PCB 1016	24-Hour Composite	As specified in 40 CFR 136
PCB 1221	24-Hour Composite	As specified in 40 CFR 136
PCB 1232	24-Hour Composite	As specified in 40 CFR 136
PCB 1242	24-Hour Composite	As specified in 40 CFR 136
PCB 1248	24-Hour Composite	As specified in 40 CFR 136
PCB 1254	24-Hour Composite	As specified in 40 CFR 136
PCB 1260	24-Hour Composite	As specified in 40 CFR 136
Base/Neutral Extractables	•	
Acenaphthene	24-Hour Composite	As specified in 40 CFR 136
Acenaphthylene	24-Hour Composite	As specified in 40 CFR 136
Anthracene	24-Hour Composite	As specified in 40 CFR 136
Benzidine	24-Hour Composite	As specified in 40 CFR 136
Benzo(a)Anthracene	24-Hour Composite	As specified in 40 CFR 136
Benzo(a)Pyrene	24-Hour Composite	As specified in 40 CFR 136
Benzo(b)Fluoranthene	24-Hour Composite	As specified in 40 CFR 136

APPENDIX 1 PERMIT NO. HI 0020117 Page 2 of 3

Discharge Parameter Sample Type Analytical Method Benzo(gh,i)Perylene 24-Hour Composite As specified in 40 CFR 136 Bis(2-Chloroethoxy)Methane 24-Hour Composite As specified in 40 CFR 136 Bis(2-Chloroethy)Ether 24-Hour Composite As specified in 40 CFR 136 Bis(2-Chloroethy)Ether 24-Hour Composite As specified in 40 CFR 136 Bis(2-Ethylhexyl)Phthalate 24-Hour Composite As specified in 40 CFR 136 Lister 24-Hour Composite As specified in 40 CFR 136 Lister 24-Hour Composite As specified in 40 CFR 136 Lister 24-Hour Composite As specified in 40 CFR 136 Chrysene 24-Hour Composite As specified in 40 CFR 136 Chrysene 24-Hour Composite As specified in 40 CFR 136 Chrysene 24-Hour Composite As specified in 40 CFR 136 Ly-Dichlorobenzene 24-Hour Composite As specified in 40 CFR 136 1,2-Dichlorobenzene 24-Hour Composite As specified in 40 CFR 136 1,4-Dichlorobenzene 24-Hour Composite As specified in 40 CFR 136 1,4-Dichlorobenzene 24-Hour Composite			
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1,2,4-Trichlorobenzene 24-Hour Composite As specified in 40 CFR 136 Acid Extractables 2-Chlorophenol 24-Hour Composite As specified in 40 CFR 136 2,4-Dichlorophenol 24-Hour Composite As specified in 40 CFR 136 2,4-Dimethylphenol 24-Hour Composite As specified in 40 CFR 136 4,6-Dintro-O-Cresol 24-Hour Composite As specified in 40 CFR 136 2,4-Dinitrophenol 24-Hour Composite As specified in 40 CFR 136 2,4-Dinitrophenol 24-Hour Composite As specified in 40 CFR 136 2-Nitrophenol 24-Hour Composite As specified in 40 CFR 136		24-Hour Composite	As specified in 40 CFR 136
Acid Extractables2-Chlorophenol24-Hour CompositeAs specified in 40 CFR 1362,4-Dichlorophenol24-Hour CompositeAs specified in 40 CFR 1362,4-Dimethylphenol24-Hour CompositeAs specified in 40 CFR 1364,6-Dintro-O-Cresol24-Hour CompositeAs specified in 40 CFR 1362,4-Dinitrophenol24-Hour CompositeAs specified in 40 CFR 1362-Nitrophenol24-Hour CompositeAs specified in 40 CFR 136	Pyrene	24-Hour Composite	As specified in 40 CFR 136
2-Chlorophenol24-Hour CompositeAs specified in 40 CFR 1362,4-Dichlorophenol24-Hour CompositeAs specified in 40 CFR 1362,4-Dimethylphenol24-Hour CompositeAs specified in 40 CFR 1364,6-Dintro-O-Cresol24-Hour CompositeAs specified in 40 CFR 1362,4-Dinitrophenol24-Hour CompositeAs specified in 40 CFR 1362-Nitrophenol24-Hour CompositeAs specified in 40 CFR 136	1,2,4-Trichlorobenzene	24-Hour Composite	As specified in 40 CFR 136
2,4-Dichlorophenol24-Hour CompositeAs specified in 40 CFR 1362,4-Dimethylphenol24-Hour CompositeAs specified in 40 CFR 1364,6-Dintro-O-Cresol24-Hour CompositeAs specified in 40 CFR 1362,4-Dinitrophenol24-Hour CompositeAs specified in 40 CFR 1362-Nitrophenol24-Hour CompositeAs specified in 40 CFR 136		<u></u>	
2,4-Dichlorophenol24-Hour CompositeAs specified in 40 CFR 1362,4-Dimethylphenol24-Hour CompositeAs specified in 40 CFR 1364,6-Dintro-O-Cresol24-Hour CompositeAs specified in 40 CFR 1362,4-Dinitrophenol24-Hour CompositeAs specified in 40 CFR 1362-Nitrophenol24-Hour CompositeAs specified in 40 CFR 136	2-Chlorophenol	24-Hour Composite	As specified in 40 CFR 136
4,6-Dintro-O-Cresol24-Hour CompositeAs specified in 40 CFR 1362,4-Dinitrophenol24-Hour CompositeAs specified in 40 CFR 1362-Nitrophenol24-Hour CompositeAs specified in 40 CFR 136			
4,6-Dintro-O-Cresol24-Hour CompositeAs specified in 40 CFR 1362,4-Dinitrophenol24-Hour CompositeAs specified in 40 CFR 1362-Nitrophenol24-Hour CompositeAs specified in 40 CFR 136	2,4-Dimethylphenol	24-Hour Composite	As specified in 40 CFR 136
2,4-Dinitrophenol24-Hour CompositeAs specified in 40 CFR 1362-Nitrophenol24-Hour CompositeAs specified in 40 CFR 136			·
2-Nitrophenol 24-Hour Composite As specified in 40 CFR 136			•
	4-Nitrophenol	24-Hour Composite	As specified in 40 CFR 136

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Discharge Parameter	Sample Type	Analytical Method
P-Chloro-M-Cresol	24-Hour Composite	As specified in 40 CFR 136
Pentachlorophenol	24-Hour Composite	As specified in 40 CFR 136
Phenol	24-Hour Composite	As specified in 40 CFR 136
2,4,6-Trichlorophenol	24-Hour Composite	As specified in 40 CFR 136
Volatile Organics		
Acrolein	Grab	As specified in 40 CFR 136
Acrylonitrile	Grab	As specified in 40 CFR 136
Benzene	Grab	As specified in 40 CFR 136
Bromoform	Grab	As specified in 40 CFR 136
Carbon Tetrachloride	Grab	As specified in 40 CFR 136
Chlorobenzene	Grab	As specified in 40 CFR 136
Chlorodibromomethane	Grab	As specified in 40 CFR 136
Chloroethane	Grab	As specified in 40 CFR 136
2-Chloroethyl Vinyl Ether	Grab	As specified in 40 CFR 136
Chloroform	Grab	As specified in 40 CFR 136
Dichlorobromomethane	Grab	As specified in 40 CFR 136
1,1-Dichloroethane	Grab	As specified in 40 CFR 136
1,2-Dichloroethane	Grab	As specified in 40 CFR 136
1,1-Dichloroethylene	Grab	As specified in 40 CFR 136
1,2-Dichloropropane	Grab	As specified in 40 CFR 136
1,3-Dichloropropylene	Grab	As specified in 40 CFR 136
Ethylbenzene	Grab	As specified in 40 CFR 136
Methyl Bromide	Grab	As specified in 40 CFR 136
Methyl Chloride	Grab	As specified in 40 CFR 136
Methylene Chloride	Grab	As specified in 40 CFR 136
1,1,2,2-Tetrachloroethane	Grab	As specified in 40 CFR 136
Tetrachloroethylene	Grab	As specified in 40 CFR 136
Toluene	Grab	As specified in 40 CFR 136
1,2-Trans-Dichloroethylene	Grab	As specified in 40 CFR 136
1,1,1-Trichloroethane	Grab	As specified in 40 CFR 136
1,1,2-Trichloroethane	Grab	As specified in 40 CFR 136
Trichloroethylene	Grab	As specified in 40 CFR 136
Vinyl Chloride	Grab	As specified in 40 CFR 136
Miscellaneous	T	
Cyanide	Grab	As specified in 40 CFR 136
Asbestos		
(Not required unless	24-Hour Composite	As specified in 40 CFR 136
otherwise specified)		
2,3,7,8-		
Tetrachlorodibenzon-P-	24-Hour Composite	As specified in 40 CFR 136
Dioxin (TCDD)		
301(h) Pesticides	0411: 0 2	A
Demeton	24-Hour Composite	As specified in 40 CFR 136
Guthion	24-Hour Composite	As specified in 40 CFR 136
Parathion	24-Hour Composite	As specified in 40 CFR 136
Malathion	24-Hour Composite	As specified in 40 CFR 136
Mirex	24-Hour Composite	As specified in 40 CFR 136
Methoxychlor	24-Hour Composite	As specified in 40 CFR 136